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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,157	08/01/2008	Minoru Hirata	04632.0072	4857
22852 FINNEGAN 1	7590 02/24/201 HENDERSON, FARAE	EXAMINER		
LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			YUEN, JACKY	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/586,157	HIRATA, MINORI	J
Examiner	Art Unit	
Jacky Yuen	1735	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE $\underline{1}$ MONTH(S) OR THIRTY (30) DAYS,

J.S. Patient and Trademark Office PTOL-326 (Rev. 08-06) Office Action Sum	mary Part of Paper No./Mail Date 20110209
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patient Drawing Review (PTO-948) Thriormation Disclosure Statement(s) (PTO-SB/tbs) Paper Nots) Mail Date	4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date 5) ☐ Notice of Informat Patent Application 6) ☐ Other:
12) Acknowledgment is made of a claim for foreign priority a) All b) Some * c) None of: 1. Certified copies of the priority documents have be compared to the priority documents have been detailed of the priority documen	een received. een received in Application No ments have been received in this National Stage Rule 17.2(a)).
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or Applicant may not request that any objection to the drawing(Replacement drawing sheet(s) including the correction is rec 11) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119	s) be held in abeyance. See 37 CFR 1.85(a). uired if the drawing(s) is objected to. See 37 CFR 1.121(d).
Application Papers	
Disposition of Claims 4) ☑ Claim(s) 1.31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☑ Claim(s) 1.31 are subject to restriction and/or election	
Status 1) Responsive to communication(s) filed on	ept for formal matters, prosecution as to the merits is
WINDOWS AND	event, however, may a reply be timely filed d will expire SIX (6) MONTHS from the mailing date of this communication, application to become ABANDONED (35 U.S.C. § 133).

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claim(s) 1-12 and 28, drawn to a flask.
- Group II, claim(s) 13-27, drawn to a method for molding a mold with a flask-less molding machine.
- Group III, claim(s) 29-31, drawn to a method for molding a mold with a flask-molding machine.
- *Please note that many of the dependent claims are improper multiple-dependent claims (see MPEP 608.01(n)).
- 2. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common feature of all the groups does not define a contribution over the prior art, i.e., is known in the art, and therefore, not a special technical feature.

The common feature between all the groups is taught by Shioda et al (JP 59-073148, cited by applicant). The common features are a flask for containing molding sand (taught in Shioda et al, fig 1, abstract, top and bottom molding flasks 16,17), comprising: a body that

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defines an opening in which a sand mold is to be molded (Shioda et al, figs 1-2, flasks 16,17), said body having an inlet for introducing said mold sand into said opening (Shioda et al. figs 1-2. introducing ports 43,44); and a mounting member attached to said body for mounting said flask on a plurality of connecting arms that is adapted to integrally connect one flask to another flask such that the one flask and the other flask are opposed to, and spaced apart from, each other, while they are supported by said connecting arms (Shioda et al. figs 1-2 show a mounting device, references 13 appear to be connecting arms, connected to reference 15, for mounting flasks 16,17).

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows (Applicant must elect one species within each Species Group):

Species Group A:

species a1: wherein said mounting member is integrally molded to said body (appears directed to claim 3):

species a2: wherein said mounting member is formed separate from said body and is mechanically attached to said body (appears directed to claim 4).

Species Group B:

species b1: wherein one flask has a form the same as the other flask (appears directed to claim 6):

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species b2: wherein one flask has a form that differs from the other flask (appears directed to claim 7).

Species Group C:

species c1: wherein said flask unit is to be incorporated in a flaskless mold machine (appears directed to claim 12);

species c2: wherein said flask unit is to be incorporated in a flask molding machine (appears directed to claim 28).

Species Group D:

species d1: said driving means are moved with said rotation frame in unison (appears directed to claim 20);

species d2: said driving means are in fixed positions (appears directed to claim 21).

species d3: one of the pair of the driving means is moved with said rotation frame in unison, while another driving means is in a fixed position (appears directed to claim 22).

Species Group E:

species e1: said defining step simultaneously defines said pair of molding spaces (appears directed to claim 23);

species e2: said defining step defines one molding space and another molding space at different times (appears directed to claim 24).

Species Group F:

species f1: said defining step is completed before said introducing step (appears directed to claim 25); Application/Control Number: 10/586,157 Page 5

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species f2: said introducing step includes at least one additional defining step (thus not completed before, appears directed to claim 26).

Applicant is required, in reply to this action, to elect a single species from each species group to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: claim 1.

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REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or

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(4) A process and an apparatus or means specifically designed for carrying out the said process; or

(5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art,

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the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other

invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jacky Yuen whose telephone number is (571)270-5749. The

examiner can normally be reached on Monday - Friday, 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jessica Ward can be reached on (571)272-1223. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacky Yuen/

Examiner, Art Unit 1735

/Jessica L. Ward/

Supervisory Patent Examiner, Art Unit 1735